

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-5 (Canceled)

6. (New) A method for determining if there is a temperature dependent hopping pixel defect in an image sensor, the method comprising the steps of:

- (a) capturing at least two images;
- (b) determining one or more substantially maximum and minimum values at the same pixel location in the two or more images;
- (c) calculating one or more differences between the substantially maximum and minimum values for obtaining one or more delta values;
- (d) comparing the one or more delta values with a threshold; and
- (e) recording the pixels whose delta values are beyond the threshold as hopping pixels.

7. (New) The method as in claim 6 further comprising the step of (f) providing a heating unit that receives the image sensor and provides predetermined heated temperature conditions to which the image sensor is subjected before capturing the two or more images to increase efficiency of capturing the hopping pixel.

8. (New) The method as in claim 6 further comprising the step of repeating steps (a) through (e) for increasing accuracy of capturing the hopping pixel.

9. (New) The method as in claim 7 further comprising the step of repeating steps (a) through (f) for increasing accuracy of capturing the hopping pixel.

10. (New) The method as in claim 6 further comprising the step of displaying the hopping pixel on a display.